

U.S. Department of Transportation

MAY 1 0 2005

Pipeline and Hazardous Materials Safety Administration

Mr. Jay Lozier EHS & Q Manager Tecpro Corporation 3555 Atlanta Industrial Parkway Atlanta, GA 30331

Dear Mr. Lozier:

This responds to your letter dated March 8, 2005, regarding the applicability of the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180) to ferrosilicon alloy samples containing 25-73% silicon. Specifically, you request confirmation from this Office that the test reports submitted with your letter provide sufficient verification that the tested materials are not subject to the requirements of the HMR.

As provided in § 173.22, it is a shipper's responsibility to properly classify a hazardous material. Such determinations are not required to be verified by this Office. However, based on the test results you provided, it is our opinion that the ferrosilicon imported by your company does not meet the definition of a Division 4.3 material and, provided it does not meet the criteria for another hazard class, it is not subject to the HMR.

I trust this satisfies your inquiry. Please contact us if we can be of further assistance.

Sincerely,

Hattie L. Mitchell

Hatte I. Whole

Chief, Regulatory Review and Reinvention Office of Hazardous Materials Standards



050059

173,132

400 Seventh Street, S.W.

Washington, D.C. 20590

Ref. No. 05-0059



March 8, 2005

Associate Administrator for Hazardous Materials Safety Pipeline and Hazardous Materials Safety Administration U.S. Department of Transportation 400 7th Street, SW. Washington, D.C. 20590-0001

Attention: DHM-31

Re: Exemption for 4 Ferro-Silicon Allovs

Ladies and Gentlemen:

On behalf and for

**Tecpro Corporation** 3555 Atlanta Industrial Parkway Atlanta, GA 30331

tecpro corporation

3555 Atlanta Industrial Parkway Atlanta, GA 30331

Telephone: (404) 691-7213 Fax: (404) 691-7518

Stevens 5173.132 Definitions 05-0059

I, Jay Lozier, EHS&Q Manager, Tecpro Corporation, request that the transportation in commerce of the following ferrosilicon alloys be exempt from the Hazards Classes 4.3 and 6.1 (UN1408) (49CFR173.123(c) and 49CFR173.132) and the placarding requirements in 49CFR172.101:

Alloy	Sizes Currently Imported
Tecproloy 75	1/4" x 32 mesh
•	32 x 80 mesh
Tecprosel	8 mesh x down
Tecprosid B	1/4" x 32 mesh
	6 x 48 mesh
	14 mesh x down
Tecprosid 20	1/4" x 32 mesh
	¾" x ¾" mesh

Laboratory testing by Stressau Laboratory of Spooner, WI (copy attached) shows that none of these alloys meet the requirements for Hazard Class 4.3 as set forth in 49CFR173.123(c). The rate of gas evolution by these alloys was significantly below the requirement of greater than 1 l/kg/hr for Hazard Class 4.3.









These alloys are in the form of grains and pieces and do not have a significant fraction in the 10 micron size for inhalation toxicity. The amount that is less than 270 mesh (53 micron) is less 5% for all these alloys (Typical sieve analysis for each is attached). They also are not ingestion or dermal hazards. These alloys do not meet the requirements of 49CFR173.132 for Hazard Class 6.1.

These alloys are imported from Japan for resale to US foundries. The manufacturer classifies them as hazardous and when we ship them we use the manufacturer's classification as required. They are normally sold in their original packaging. If repackaged, containers meeting the requirements in the Hazardous Material Table of 49CFR172.101 and referenced sections are used. Note we also import one size of Tecprosid B (14 mesh x down) primarily for the manufacture of cored wire powder filler. The cored wire filler is not included in this request.

The typical annual amount of each product that we sell per year is:

Tecproloy 75 120,000 lbs Tecprosel 401,000 lbs

Tecprosid B 768,000 lbs for resale

100,000 lbs for blending into wire powder filler

Tecprosid 20 84,000 lbs

Our monthly shipments are fairly constant, for example we would ship about 64,000 lbs/month of Tecprosel with a typical maximum of about 70,000 lbs and typical minimum of about 60,000 lbs. There are about 16-20 shipments to customers per month and the average shipment size is about 6,350 lbs. Shipment size ranges from 500 lbs to 41,300 lbs. There are also about 4-5 shipments each month from our Atlanta warehouse to our distribution warehouses, each about 8,000 lbs.

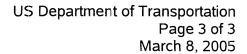
Inbound shipments, in containers, come to either our Atlanta warehouse or directly to our distribution warehouses.

We are not aware of any transportation incidents with these materials either when inbound from Japan or during shipment by us or our distribution warehouses.

Also, we are aware that other similar ferrosilicon alloys that we purchase are exempted from the hazardous material requirements.

We ship these materials by motor vehicle, rail freight, and cargo vessel.

The effective date we request is August 1, 2005 and this exemption would be indefinite, subject to renewal as specified 49CFR107.109.





Also, we have enclosed the current Technical Data Sheets for each alloy covering the material for resale.

If you need further information or have any question please contact the undersigned.

Yours truly,

Jay Lozier

EHS&Q Manager

Email: <a href="mailto:jlozier@tecprocorp.com">jlozier@tecprocorp.com</a>

Phone: (404)-691-7213

Fax (Direct): (404)-691-4794

**Enclosures** 

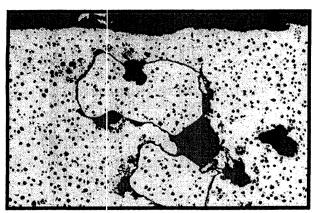


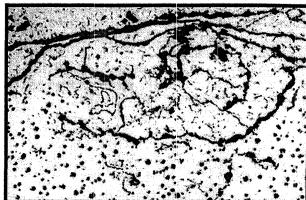
3555 Atlanta Industrial Parkway Atlanta, Georgia 30331-1055 Tel. Number: (404) 691-7213 (800) 262-6296

Fax Number: (404) 691-7518

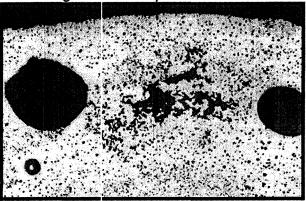
## **TECPROSEL®**

# A product proven to substantially reduce these inclusions and defects

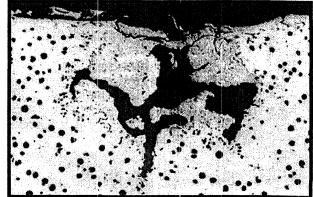




Mg Dross and Exploded Nodules



Typical Mg Dross



Silicate Slags and Graphite Pockets

Silicate Slags and Lamellar Graphite

Slag and dross inclusions in castings are eating up the profits of almost every ductile iron foundry.

Today's ductile iron foundries are faced with casting specifications requiring thinner walls, less machining allowance, a clean casting surface and very good machinability. A clean melt, free of slag and dross inclusions, is undoubtedly the key to success.

The small slag and dross particles suspended for some time in the melt after magnesium treatment of ductile iron and after post inoculation in the ladle stream are very difficult to catch with ladle deslagging and even with elaborate gating systems and filters. The particles often end up in the casting close to or at the surface, usually in areas which have to be machined with very expensive high-speed tools.

When it comes to fatigue, the same slag or dross inclusion

in a thin wall is much more serious than it would be in a 1" thick wall.

TECPROSEL represents a development for the metallurgical "cleaning" of iron melts and for diminishing slag inclusions or inclusion cavities in castings. TECPROSEL is not to be compared with known fluxes, since TECPROSEL is a combination of metallurgical (approx. 80%) and chemical products.

Very small additions of TECPROSEL to the melt are surprisingly effective.

Under certain foundry conditions, scrap due to slag and dross inclusions has been reduced substantially.

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3555 Atlanta Industrial Parkway Atlanta, Georgia 30331-1055 Tel. Number: (404) 691-7213 (800) 262-6296

Fax Number: (404) 691-7518

#### TECHNICAL INFORMATION

# TECPROSEL® Nominal Analysis

 Si
 40.0-50.0%

 Mg
 6.0- 9.0%

 TRE
 2.5- 5.0%

 Ca
 12.0-16.0%

 F
 Trace

 Fe
 Balance

Screen Size: 8 mesh-down

## APPLICATION OF TECPROSEL®

#### **DUCTILE IRON**

We recommend the addition of approx. 0.1% by weight (1 lb for 1,000 lb melt) TECPROSEL, together with the Mg treatment alloy. Addition in either the prepackaged ½ lb, 1 lb or 1 kg bags can be used without further weighing in mos: cases.

TECPROSEL also can be added during the transfer from treatment ladle to pouring ladle, usually together with the post inoculants. In this case the recommended addition would be 0.05% by weight or approx. 10% by weight of the post inoculant.

#### **FEATURES**

- (a) Liquidization of reaction products.
- (b) Lowering of surface tension of the liquid iron results in an easier release of the MgS dross and Magnesium-Oxy-Silicate slag to the melt surface.
- (c) The oxide film-forming temperature is lowered.
- (d) Fluidity of melt is increased.
- (e) Good nodularizing and inoculation effect.
- (f) Slows fading.
- (g) Substantial reduction of slag build-up in ladles or treatment chambers; for instance, tundish ladles, etc.

#### GENERAL INFORMATION

#### **PACKAGING**

1 kg (2.2 lb) plastic bag, 300 bags in a steel drum 1 lb plastic bag, 680 bags in a steel drum ½ lb plastic bag, 1100 bags in a steel drum Custom size packaging available, depending on minimum requirements.

#### STORAGE

TECPROSEL should be stored in a dry, well-ventilated place and protected against water or dampness. It must not be brought into contact with acids, acid fumes, acid vapors, and it must be kept clear of ignition sources.

The information and data contained herein are, to the best of our knowledge, true and correct on the basis of thorough test experience. All recommendations or suggestions contained in this bulletin are made without guarantee or representation as to results, since the conditions of use are beyond our control. We suggest that the user evaluate these recommendations and suggestions in his own application before use. Tecpro Corporation disclaims any liability incurred in connection with use of these data or recommendations. None of the information herein should be construed as a recommendation to use any product or process in conflict with existing patents covering any material or its use. Reproduction, in whole or in part, only with the express permission of Tecpro Corporation.

With the issue of this information, all previous publications and information, including brochures, pamphlets, etc., are considered null and void.



3555 Atlanta Industrial Parkway Atlanta, Georgia 30331

Tel.: (404) 691-7213 Fax: (404) 691-7518

Customer Service: 1-800-262-6296

#### **MATERIAL SPECIFICATION**

### TECPROSID 20

#### MATERIAL DESCRIPTION

Rare Earth inoculant especially formulated for gray iron inoculation with a strong effect on chill reduction and improved machinability.

#### NOMINAL ANALYSIS

Si	25.0 <i>-</i> 35.0%	
TRE	18.0 - 22.0%	(Ce 47 - 52%, La 25 - 30%)
Ca	2.0% max.	
Al	1.0% max.	
Mn	1.0% max.	
Fe	Balance	

SIZES

1/4 " - 32 mesh (0.5 -6 mm) 6 - 48 mesh (0.3 - 3 mm)

#### **PACKAGING**

2950 lb. net super sack on pallet or 500 lb. net steel drum

Tagging on each sack/drum:

alloy type

size

shipping number

#### **GENERAL**

The Tecprosid 20 alloy should be stored in a dry, well-ventilated place and protected against water or dampness. It must not be brought into contact with acid, acid fumes, or acid vapors. Make sure that all employees read and understand the precautionary labels before material is used.

# RECOMMENDED ADDITION

0.15 - 0.30% by weight

The information and data contained herein are to the best of our knowledge and intended to provide general notes on our products and their uses. All recommendations or suggestions are made without guarantee or representation as to results, since the conditions of use are beyond our control. We suggest that the user evaluate these recommendations and suggestions in his own application before use. Tecpro Corporation disclaims any liability incurred in connection with use of these data or recommencations. None of the information herein should be construed as a recommendation to use any product or process in conflict with existing patents covering any material or its use.

ALLOYS, INOCULANTS, CORED WIRE, AND REFRACTORY COATINGSG

February 10, 2005

Issue Number: 10



3555 Atlanta Industrial Parkway Atlanta, Georgia 30331

Tel.: (404) 691-7213 Fax: (404) 691-7518

Customer Service: 1-800-262-6296

#### **MATERIAL SPECIFICATION**

## TECPROSID B

#### MATERIAL DESCRIPTION

Rare Earth Silicide alloy especially suited for addition to ductile iron melts because of its <u>very low Ti content</u>. Very effective as pre-conditioner for ductile iron when pure Mg or high Mg-containing alloys are used for treatment.

#### **NOMINAL ANALYSIS**

Si	30.0 - 40.0%	
TRE	30.0 - 33.0%	(Ce 47 - 52%, La 25 - 30%)
Ca	2.0% max.	
Al	1.0% max.	
Mn	0.5% max.	
Ti	0.5% max.	
Fe	Balance	

SIZES

3/8 " - 14 mesh (1 -10 mm) 3/4" - 3/8" (10 - 19 mm)

#### **PACKAGING**

In 2950 lb. net super sack on pallet or 500 lb. net steel drum

Tagging on each sack/drurn:

alloy type

size

shipping number

#### GENERAL

The Tecprosid B alloy should be stored in a dry, well-ventilated place and protected against water or dampness. It must not be brought into contact with acid, acid fumes, or acid vapors. Make sure that all employees read and understand the precautionary labels before material is used.

The information and data contained herein are to the best of our knowledge and intended to provide general notes on our products and their uses. All recommendations or suggestions are made without guarantee or representation as to results, since the conditions of use are beyond our control. We suggest that the user evaluate these recommendations and suggestions in his own application before use. Tecpro Corporation disclaims any liability incurred in connection with use of these data or recommenciations. None of the information herein should be construed as a recommendation to use any product or process in conflict with existing patents covering any material or its use.



#### **MATERIAL SPECIFICATION**

Tecproloy 75

#### tecpro corporation

3555 Atlanta Industrial Parkway Atlanta, Georgia 30331

Tel.: (404) 691-7213 Fax: (404) 691-7518

Customer Service: 1-800-262-6296

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#### MATERIAL DESCRIPTION

Proprietary inoculant for the inoculation of gray iron and ductile iron (ladle and instream).

#### NOMINAL ANALYSIS

Si	68.0 - 73.0%
Ca	1.0 - 1.6%
Ва	1.0 - 1.8%
Al	1.5 - 2.1%
Trace Elements	Approx. 0.5%
Fe	Balance

#### SIZE

 $\frac{1}{4}$ " - 32 mesh (6 mm – 0.5 mm) 32 mesh – 80 mesh (0.5 – 0.20 mm)

#### TESTS PERFORMED BY PRODUCER

- (a) visual test: foreign elements -- none slag -- none
- (b) chemical analysis and screen analysis of each shipment leaving the plant

#### **PACKAGING**

In 1 MT net (2205 lb.) super sacks on pallets or 500 lb net steel drums

Tagging on each sack/drum:

alloy type

size

shipping number

#### **GENERAL**

The Tecproloy 75 alloy should be stored in a dry, well-ventilated place and protected against water or dampness. It must not be brought into contact with acid, acid fumes, or acid vapors. Make sure that all employees read and understand the precautionary labels before material is used.

# RECOMMENDED ADDITION

0.10% (by weight) instream inoculation 0.30% (by weight) ladle inoculation

The information and data contained herein are to the best of our knowledge and intended to provide general notes on our products and their uses. All recommendations or suggestions are made without guarantee or representation as to results, since the conditions of use are beyond our control. We suggest that the user evaluate these recommendations and suggestions in his own application before use. Tecpro Corporation disclaims any liability incurred in connection with use of these data or recommendations. None of the information herein should be construed as a recommendation to use any product or process in conflict with existing patents covering any material or its use.

## STRESAU LABORATORY INC.

N8265 Medley Road, Spooner, WI 54801-7819, Tel. 715-635-2777, Fax 715-635-7979 www.stresau.com

February 24, 2005

Mr. Jay Lozier Tecpro Corporation 3555 Atlanta Industrial Parkway Atlanta, GA 30331

Dear Mr. Lozier:

Enclosed please find Laboratory Report # 05015-05018 for Water Reactivity testing of your samples. Your samples appear not to be 4.3 Dangerous When Wet Materials, as defined by the DOT/UN criteria. Full details are in the enclosed report.

An invoice to cover the cost of the laboratory examinations will be sent to your accounting department under separate cover. Your sample remnants will be returned to you shortly.

We appreciate your business. If we may be of further assistance or if you have any questions, please call Tom Basham or myself at (715) 635-2777.

Sincerely,

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Thomas E. Basham

Hazardcus Materials Manager

Thoms & Boston

tb(05015-05018)

# STRESAU LABORATORY INC.

N8265 Medley Road, Spooner, WI 54801-7819, Tel. 715-635-2777, Fax 715-635-7979 www.stresau.com

#### LABORATORY REPORT # 05015-05018

"WATER REACTIVITY TESTING"

February 24, 2005

for

Tecpro Corporation 3555 Atlanta Industrial Parkway Atlanta, GA 30331

Attn: Mr. Jay Lozier

Prepared by: Thoma E. Baham

Thomas E. Basham

Hazardous Materials Manager

Reviewed by:

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Michael J. Pesko

Chief Operating Officer

LABORATORY REPORT NO. 05015-05018 Page 1 of 4

Prepared for: Tecpro Corporation

3555 Atlanta Industrial Parkway

Atlanta, GA 30331

Subject: Water Reactivity Testing

#### 1.0 OBJECT

5.4

Four samples identified below were received and subjected to a Water Reactivity test in accordance with the <u>US Code of Federal Regulations</u>, <u>Title 49</u>, <u>paragraph 173.125(d)</u> and the *United Nations Transport of Dangerous Goods –Manual of Tests and Criteria – Third revised edition* as requested by Jay Lozier, of Tecpro Corp., Purchase Order # 11345.

#### 2.0 IDENTIFCATION AND PHYSICAL APPEARANCE

Tecpro ID	Stresau ID#	Appearance
Tecprosel	05015	Crushed alloy with gray metallic color
Tecproloy 75	05016	Crushed alloy with gray metallic color
Tecprosid B	05017	Crushed alloy with gray metallic color
Tecprosid 20	05018	Solid chunks with gray metallic color

The samples were contained in plastic jars. The samples arrived at Stresau at ambient temperature, and were tested in the form received.

#### 3.0 TEST CONDUCTED

#### 3.1 Water Reactivity Test UN test N.5

#### 3.1.1 Gas Evolution tests: Three trials were conducted, with results as follows:

Sample # 05015 - Tecprosel

a) Sample weight: 25.0 grams
Distilled water: 25 mls

Room temperature at start of test: 71.9 °F

Monitored for: 8 hours

Maximum gas evolution rate: 0.48 L/kg/hr (measured in the first hour)

#### LABORATORY REPORT NO. 05015-05018 Page 2 of 4

b) Sample weight: 25.0 grams Distilled water: 20 mls

Room temperature at start of test: 71.9°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.56 L/kg/hr (measured in the first hour)

c) Sample weight: 25.0 grams
Distilled water: 25 mls

Room temperature at start of test: 71.6°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.32 L/kg/hr (measured in the first hour)

#### 3.1.2 *Sample # 05016 - Tecproloy 75*

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a) Sample weight: 25.0 grams

Distilled water: 25 mls

Room temperature at start of test: 71.6°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.20 L/kg/hr (measured in the first hour)

b) Sample weight: 25.0 grams

Distilled water: 20 mls

Room temperature at start of test: 73.3°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.24 L/kg/hr (measured in the first hour)

c) Sample weight: 25.0 grams

Distilled water: 25 mls

Room temperature at start of test: 73.3°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.20 L/kg/hr (measured in the first hour)

#### 3.1.3 *Sample* # 05017 - Tecprosid B

a) Sample weight: 25.0 grams

Distilled water: 25 mls

Room temperature at start of test: 72.1°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.52 L/kg/hr (measured in the first hour)

# LABORATORY REPORT NO. 05015-05018 Page 3 of 4

b) Sample weight: 25.0 grams Distilled water: 22.5 mls

Room temperature at start of test: 72.1°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.54 L/kg/hr (measured in the first hour)

c) Sample weight: 25.0 grams
Distilled water: 25 mls

Room temperature at start of test: 71.8°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.48 L/kg/hr (measured in the first hour)

#### 3.1.2 Sample # 05018 - Tecprosid 20

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a) Sample weight: 25.0 grams

Distilled water: 15 mls

Room temperature at start of test: 71.8°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.28 L/kg/hr (measured in the first hour)

b) Sample weight: 25.0 grams

Distilled water: 15 mls

Room temperature at start of test: 71.8°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.24 L/kg/hr (measured in the first hour)

c) Sample weight: 25.0 grams

Distilled water: 15 mls

Room temperature at start of test: 72.3°F

Monitored for: 8 hours

Maximum gas evolution rate: 0.28 L/kg/hr (measured in the first hour)

Criteria: (a) Spontaneous ignition takes place in any step of the test procedure; or

(b) If there is an evolution of a flammable gas at a rate greater than 1 litre per kilogram of the substance per hour.

LABORATORY REPORT NO. 05015-05018 Page 4 of 4

#### 4.0 CONCLUSIONS

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Based on the above test results it is seen that:

1) The materials represented by samples # 05015-05018 do not appear to be *Division 4.3 Dangerous When Wet Materials*, as defined by the UN/DOT criteria. This is because the samples did not produce a flammable gas at a rate of greater than 1 liter/kilogram/hour.

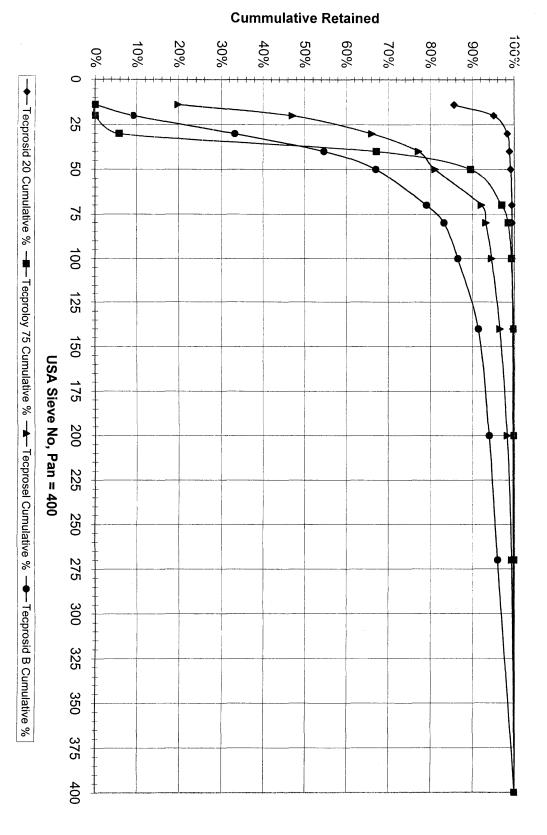
#### 5.0 DATA STORAGE

The field data for this report are contained in Data Book # SLF 2005-1, and filed with Stresau Laboratory's Document Control. No photographic or video documentation was made.

#### 6.0 TEST SERVICES

For the benefit of our customers, Stresau Laboratory, Inc., will on occasion, use outside testing services to either expedite or qualify our own testing capabilities.

# Seive Analysis of Ferro-Silicon Alloys



Date 3/7/2005
Product Tecprosid 20
Nominal Size 1/4" x 32 mesh

	Amount Retained on Sieve			
USA Sieve No.	Total Mass	Grams	Retained %	Cumulative %
14	375.65	375.65	85.60%	85.60%
20	417.19	41.54	9.47%	95.07%
30	431.57	14.38	3.28%	98.34%
40	434.03	2.46	0.56%	98.90%
50	435.04	1.01	0.23%	99.13%
70	435.94	0.90	0.21%	99.34%
80	436.26	0.32	0.07%	99.41%
100	436.53	0.27	0.06%	99.47%
140	437.03	0.50	0.11%	99.59%
200	437.43	0.40	0.09%	99.68%
270	437.75	0.32	0.07%	99.75%
Pan	438.84	1.09	0.25%	100.00%
TOTALS		438.84	100.00%	

Screened By:	JSL

Date 3/7/2005
Product Tecproloy 75
Nominal Size 32 x 80 mesh

	Amount Retained on Sieve			
USA Sieve No.	Total Mass	Grams	Retained %	Cumulative %
14	0.06	0.06	0.01%	0.01%
20	0.14	0.08	0.02%	0.03%
30	23.54	23.40	5.70%	5.74%
40	275.47	251.93	61.41%	67.15%
50	367.07	91.60	22.33%	89.48%
70	397.35	30.28	7.38%	96.86%
80	403.88	6.53	1.59%	98.45%
100	407.37	3.49	0.85%	99.31%
140	409.32	1.95	0.48%	99.78%
200	409.62	0.30	0.07%	99.85%
270	409.70	0.08	0.02%	99.87%
Pan	410.22	0.52	0.13%	100.00%
TOTALS		410.22	100.00%	

Screened By:	JSL

Date 3/7/2005
Product Tecprosel
Nominal Size 8 mesh x down

	Amount Retained on Sieve			
USA Sieve No.	Total Mass	Grams	Retained %	Cumulative %
14	73.80	73.80	19.82%	19.82%
20	175.27	101.47	27.25%	47.07%
30	246.12	70.85	19.03%	66.10%
40	287.34	41.22	11.07%	77.17%
50	301.85	14.51	3.90%	81.06%
70	342.75	40.90	10.98%	92.05%
80	346.80	4.05	1.09%	93.13%
100	352.08	5.28	1.42%	94.55%
140	359.15	7.07	1.90%	96.45%
200	365.87	6.72	1.80%	98.25%
270	369.84	3.97	1.07%	99.32%
Pan	372.37	2.53	0.68%	100.00%
TOTALS		372.37	100.00%	

Screened By:	JSL
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Date 3/7/2005
Product Tecprosid B
Nominal Size 14 mesh x down

	Amount Retained on Sieve			
USA Sieve No.	Total Mass	Grams	Retained %	Cumulative %
14	0.00	0.00	0.00%	0.00%
20	51.32	51.32	9.20%	9.20%
30	185.35	134.03	24.03%	33.24%
40	304.39	119.04	21.35%	54.58%
50	373.90	69.51	12.46%	67.05%
70	440.59	66.69	11.96%	79.01%
80	463.59	23.00	4.12%	83.13%
100	482.28	18.69	3.35%	86.48%
140	509.32	27.04	4.85%	91.33%
200	523.75	14.43	2.59%	93.92%
270	534.92	11.17	2.00%	95.92%
Pan	557.66	22.74	4.08%	100.00%
TOTALS		557.66	100.00%	

Screened By:	JSL
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U.S. Department of Transportation

Pipeline and Hazardous Materials Safety Administration

MAY 6 2005

Ms. Dianna F. Lee Mallinckrodt Baker, Inc. 600 N. Eroad Street Phillipsburg, NJ 08865 Ref. No. 05-0062

400 Seventh Street, S.W.

Washington, D.C. 20590

Dear Ms. Lee:

This responds to your November 3, 2004 letter and March 18, 2005 fax requesting clarification on the labeling requirements for 'Methanol' when shipped domestically and internationally under the Hazardous Materials Regulations (HMR; 49 CFR Parts 171-180). Specifically, you ask whether it is permissible to label the package in compliance with international requirements when shipped domestically only.

The answer is yes. As your letter notes, the Hazardous Materials Table (HMT) includes two entries for methanol, one for international transportation and one for domestic transportation. The two entries are identical, except that the international entry requires a subsidiary hazard Division 6.1 label, and the domestic entry does not. In accordance with § 172.101(b)(3) and (b)(5), you may use either the international or domestic entry in the HMT for domestic transportation of methanol.

I hope this answers your inquiry.

Sincerely

John A. Gale

Chief, Standards Development

Office of Hazardous Materials Standards

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172.101

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Mallinckrodt Baker

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Mallinckrodt Beker, Inc. 222 Red School Lane Phillipsburg, NJ 08865

Tel: 908-859-2151 Fax: 908-859-9411

Mr. Edward T. Mazzullo Director, Office of Hazardous Materials Standards U.S. DOT/PHMSA (DHM-10) 400 7th Street S.W. Washington, D.C. 20590-0001

November 3, 2004

Dear Mr. Mazzullo,

This letter is a request for a letter of interpretation regarding a hazardous material, methanol.

To give you a brief overview of the situation, our company sells methanol as a product, and traditionally have been packaging and labeling them separately for domestic and international shipments. We are currently assessing the possibility of consolidating the two and just use the international classification, and affixing both the flammable and toxic labels to both domestically and internationally shipped packages.

The current 49 CFR specifies in the Hazardous Materials Table (172.101) that for Methanol, UN1230, PGII, there exists two entries, namely one for domestic (denoted by a letter "D") and one for international (denoted by a letter "I") shipping purposes. The two entries are identical except for the labeling codes required. International shipping requires both a flammable label (3) and a toxic label (6.1) in order to meet the requirements for hazard classes. Domestic shipping, however, only requires the flammable label (3), and there is no mention of toxicity hazards associated with the chemical. According to section 172.101(b)(5), "The letter "!" identifies proper shipping names which are appropriate for describing materials in international transportation. An alternate proper shipping name may be selected when only domestic transportation is involved." My interpretation of this is that although we may choose to use the domestic classification with only the flammable label and hazard class 3 requirement for methanol, we will not be out of compliance if we choose to disclose the toxicity hazard and classify our product (methanol) as class 3, with a subsidiary hazard class of 6.1, which requires both the flammable and toxic labels for domestic shipping only purposes. I would appreciate it if you can please reply back with an official interpretation from the hazmat administration regarding this issue as to whether or not we would be incorrect and out of compliance to affix both flammable(3) and toxic(6.1) labels on a package of methanol shipped domestically only. The response can be forwarded to the below address, and should you have any questions, please feel free contact me at the number also provided below.

Mallinckrodt Baker, Inc. 600 N. Broad Street Phillipsburg, NJ 08865 (908)859-2151 ext. 9764

Once again, thank you in advance for you help and clarification in this matter, and I look forward to hearing from you.

Sincerely,

Dianna F. Lee

Quality Information Administrator

- L. L.